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PTO/SB/05 (03-01) Approved for use through 10/31/2002. OMB 0651-0032

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UTILITY PATENT APPLICATION

Y1004/20017 Attorney Docket No. Nobuto Yamamoto First Inventor PREPARPATION OF POTENT MACROPHAGE
Title ACTIVATING FACTORS DERIVED FROM
LONED VITAMIN D BINDING PROTEIN AND IT
Express Mail Label No.

(Only for new nonprovisional applications under 37 CFR 1.53(b))

TRANSMITTAL

etc.

APPLICATION ELEMENTS			ADDF	ADDRESS TO: Assistant Commissioner for Patents Box Patent Application			
See MPEP chapter 600 concerning utility patent application contents.				Washington, DC 20231			
	al Form (e.g., PTO/SB/17) ad a duplicate for fee processing)			7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)			
 Applicant claims sn See 37 CFR 1.27. 	nall entity status.		Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)				
3. X- Specification (preferred arrangement)				Computer Read	• •	CRF)	-
	Descriptive title of the invention Cross Reference to Related Applications			b. Specification Sequence Listing on:			
 Statement Regard 	rding Fed sponsored I	R&D		i. L CD-ROM or CD-R (2 copies); or			
	sequence listing, a table,			i i. 🗵 paper			
- Background of ti	er program listing appendix I of the Invention			c. Statements verifying identity of above copies			
- Brief Summary o - Brief Description		ea)	AC	COMPANYING	3 APPLIC	ATION PARTS	
 Brief Description of the Drawings (if filed) Detailed Description 			9.	Assignment Pap	ers (cover st	heet & document(s))	
Claim(s)Abstract of the Disclosure			10.	37 CFR 3.73(b) (when there is a		Power of Attorney	- 1
4. x Drawing(s) (35 U.S C. 113) [Total Sheets 11]			11.	¬ ·	• ,	ent (if applicable)	
5. Oath or Declaration				Information Disc Statement (IDS)		Copies of IDS	3
a. Newly execu	ted (original or copy)		13. X	Preliminary Am			l
Copy from a	opy from a prior application (37 CFR 1.63 (d)) r continuation/divisional with Box 18 completed)			Return Receipt Postcard (MPEP 503) (Should be specifically itemized)			
·· (ELETION OF INVENTOR(S)			15. Certified Copy of Priority Document(s) (if foreign priority is claimed)			
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1 63(d)(2) and 1 33(b).			16.	(b)(2)(B)(i). Applicant must attach form PTO/SB/35			
6. Application Data	Application Data Sheet. See 37 CFR 1.76			or its equivalent. 17. Other:			
18. If a CONTINUING APPLIC	CATION, check appro	priate box, and supp	oly the requis	ite information belo	ow and in a p	oreliminary amendme	nt,
or in an Application Data She				,	00 619	Q / ₁ Q 5	1
X Continuation		continuation-in-part (CIP)		prior application No			1
Prior application information: For CONTINUATION OR DIVISION		Ld S. Romeo		Group Art Unit			lar I
Box 5b, is considered a part of	the disclosure of the a	ccompanying continu	ation or divis	ional application an	d is hereby in	acorporated by reference	
The incorporation can only be		19. CORRESPOND			аррисации р	parts.	\dashv
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Customer Number or Bar Co	de Label (Insert d	Customer No. or Attach ba	r code label here	or X	Correspon	idence address below	
Name	Caesar, Ri	vise. Berns	tein. C	ohen & Poko	tilow,	Ltd.	
	1635 Market Street - 12th Floor						
Address	Seven Penn Center						
City	Philadelphia S		State	PA	Zip C	Code 19103	
Country	USA	Tel	ephone	(215)567-20	10 Fa	ax (215)751	-11
Name (Print/Type)	Robert S.	Silver	Regis	tration No. (Attor	ney/Agent)	35,681	
Signature	Date 4/5/2001				- 1		

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Patent fees are subject to annual revision

for FY 2001

TOTAL AMOUNT OF PAYMENT 355.00

Complete if Known			
Application Number			
Filing Date	April 5, 2001		
First Named Inventor	Nobuto Yamamoto		
Examiner Name			
Group Art Unit			
Attorney Docket No.	K1094/20002	_	

METHOD OF PAYMENT	FEE CALCULATION (continued)					
1. The Commissioner is hereby authorized to charge	3. ADDITIONAL FEES					
indicated fees and credit any overpayments to Deposit	Large Small					
Account 03-0075	Fee Fee Fee Fee Fee Description	Con Daid				
Number US 0075	Fee Fee Fee Fee Fee Description	Fee Paid				
Account Name Caesar, Rivise, et al.	105 130 205 65 Surcharge - late filing fee or oath					
Charge Any Additional Fee Required Under 37 CFR 1 16 and 1 17	127 50 227 25 Surcharge - late provisional filing fee or cover sheet					
Applicant claims small entity status.	139 130 139 130 Non-English specification					
See 37 CFR 127	147 2,520 147 2,520 For filing a request for ex parte reexamination					
2. Payment Enclosed:	112 920* 112 920* Requesting publication of SIR prior to Examiner action	ļ:				
Check Credit card Order Other	113 1,840* 113 1,840* Requesting publication of SIR after					
FEE CALCULATION	Examiner action					
1. BASIC FILING FEE	115 110 215 55 Extension for reply within first month					
Large Entity Small Entity	116 390 216 195 Extension for reply within second month					
Fee Fee Fee Fee Description Code (\$) Code (\$) Fee Paid	117 890 217 445 Extension for reply within third month					
101 710 201 355 Utility filing fee 355	118 1,390 218 695 Extension for reply within fourth month					
106 320 206 160 Design filing fee	128 1,890 228 945 Extension for reply within fifth month					
107 490 207 245 Plant filing fee	119 310 219 155 Notice of Appeal					
108 710 208 355 Reissue filing fee	120 310 220 155 Filing a brief in support of an appeal					
114 150 214 75 Provisional filing fee	121 270 221 135 Request for oral hearing					
	138 1,510 138 1,510 Petition to institute a public use proceeding					
SUBTOTAL (1) (\$) 355	140 110 240 55 Petition to revive - unavoidable					
2. EXTRA CLAIM FEES Fee from	141 1,240 241 620 Petition to revive - unintentional					
Extra Claims below Fee Paid	142 1,240 242 620 Utility issue fee (or reissue)					
Total Claims 3 -20** = 0 x = 0	143 440 243 220 Design issue fee					
Independent 3 - 3** = 0 x = 0	144 600 244 300 Plant issue fee					
Multiple Dependent =	122 130 122 130 Petitions to the Commissioner					
	123 50 123 50 Processing fee under 37 CFR 1 17(q)					
Large Entity Small Entity Fee Fee Fee Fee Fee Description	126 180 126 180 Submission of Information Disclosure Stmt					
Code (\$) Code (\$) 103 18 203 9 Claims in excess of 20	581 40 581 40 Recording each patent assignment per property (times number of properties)					
102 80 202 40 Independent claims in excess of 3	146 710 246 355 Filing a submission after final rejection (37 CFR § 1.129(a))					
104 270 204 135 Multiple dependent claim, if not paid	149 710 249 355 For each additional invention to be					
109 80 209 40 ** Reissue independent claims over original patent	examined (37 CFR § 1 129(b))					
110 18 210 9 ** Reissue claims in excess of 20	179 710 279 355 Request for Continued Examination (RCE)					
and over original patent	169 900 169 900 Request for expedited examination of a design application					
SUBTOTAL (2) (\$) 0	Other fee (specify)					
the surpher surpher of the sector for Section 200 above	*Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$)					

SUBMITTED BY				Complete (if applicable)		
Name (PrintlType)	Robert S. Silver	Registration No (Atterney/Agent)	35,681	Telephone	(215) 567-2010	
Signature				Date	4/5/2001	

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Applicant Invention

Nobuto Yamamoto

PREPARATION OF POTENT MACROPHAGE
ACTIVATING FACTORS DERIVED FROM
CLONED VITAMIN D BINDING PROTEIN
AND ITS DOMAIN AND THEIR THERAPELITIC

AND ITS DOMAIN AND THEIR THERAPEUTIC

USAGE FOR CANCER, HIV-INFECTION

AND OSTEOPETROSIS

This is a continuation patent application of which includes the following:

- 1. Utility Patent Application Transmittal letter in duplicate
- 2. Fee Transmittal for FY 2001
- Copy of Specification of ASN 08/618,485
 filed March 19, 1996 and Sequence Listing
- 4. 3 Claims 2 pages
- 5. Drawings 11 Sheets
- 6. Abstract of the Disclosure (1 page)
- 7. Copy of Declaration for Patent Application
- 8. Preliminary Amendment
- 9. Return Receipt Postcard

"Express Mail" Mailing Label No.
Date of Deposit April 5, 2001

EL781454520US

I hereby certify that the above-identified documents are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and are addressed to the Assistant Commissioner of Patents, Washington, DC 20231

Judy Perez